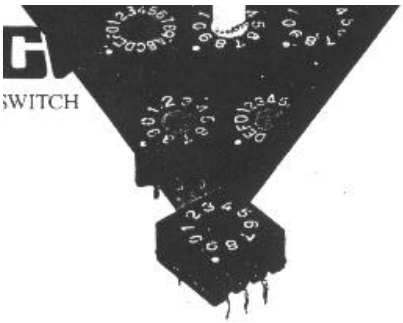
Jameco Part number 139651



ERD SERIES

ROTARY TYPE SEALED CONSTRUCTION

PATENT NO: 61003

■ FEATURES

- Molded-in terminals and fully sealed construction.
- Standard 2.54mm pin spacing.
- UL 94V-O grade fire retardant plastics.
- Reliable contact and long-term stability.
- Binary decimal (8 and 10 positions) and hexadecimal (16 positions) real and complimentary codes available.
- Pin-out compatible with most of current equivalents.
- Gold plated contact to ensure low contact resistance

■ SPECIFICATIONS

I ELECTRICAL

• Max. load rating, Switching	25mA, 24VDC
Non-switching	100mA, 50VDC.
• Contact resistance	100mO Max. at 5VDC, 10mA.
• Insulation resistance	1000MO min at 100VDC
• Dielectric strength	250VAC for 1 minute

2 MECHANICAL AND ENVIRONMENTAL

• Temperature Rating	
Operating	-25°C to + 70°C
Storage	-40°C to + 85°C
• Operating Force	500 gf-cm Max.
• Life	10000 cycles min. of operations.
• Vibration	MIL-STD-202F, Method 204D
• Solderability	After flux 230 ± 5°C for 5 ± 0.5 second 95% coverage.
• Soldering Heat	For Through Hole Type 260 ± 5°C for 5 ± 1 second. For Surface Mounting Type 260 ± 5°C for 10 ± 1 second 280 ± 5°C for 2 ± 0.5 second (Resistance to IR Reflow Soldering Heat)

■ CODE

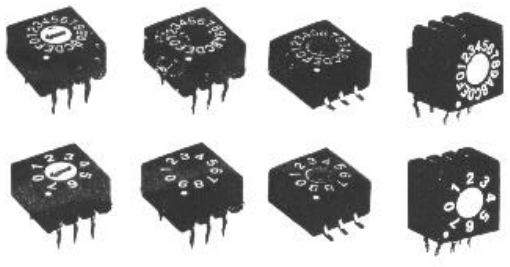
PIN NO	POSITION 0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●
2	○	○	●	●	○	○	●	●	○	○	●	●	○	○	●	●
4	○	○	○	○	●	●	●	●	○	○	○	○	●	●	●	●
8	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●

● ..... Real Code
Rotor color: White

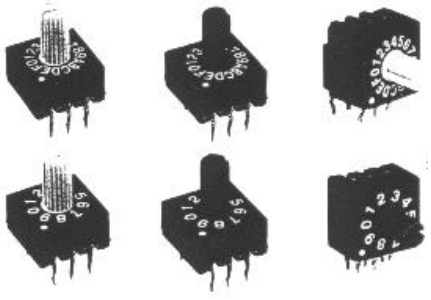
○ ..... Complimentary Code
Rotor color: Red

ERD 1 x x x x (Flat Type)

NEW



ERD 2 x x x x (Shaft Type)



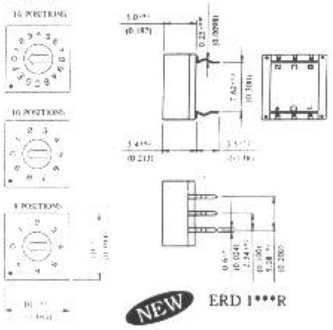
Jameco Part number 139651

■ DIMENSIONS AND CIRCUITRY

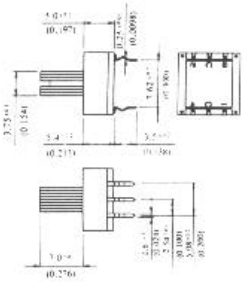
Unit: mm (inch)

Flat Type

ERD 1***S

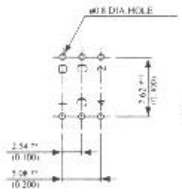


ERD 2***S

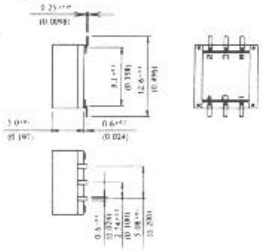


P.C.B LAY OUT (TOP VIEW)

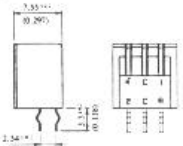
ERD ****S



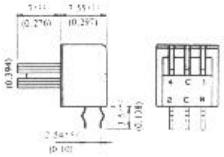
NEW ERD ****M



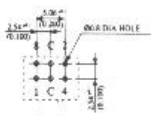
NEW ERD 1***R



NEW ERD 2***R

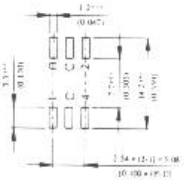


ERD ****R



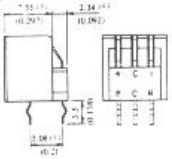
(SMT TYPE)

ERD****M

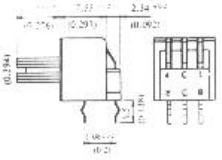


Shaft Type

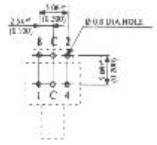
NEW ERD 1***F



NEW ERD 2***F



ERD ****F



■ CONSTRUCTION

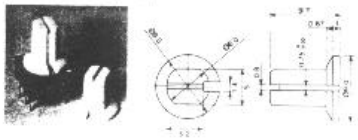
■ PART NUMBERING SYSTEM

ERD 110 R S

- Setting: S: Standard type (Top Adjust type)
  R: Right Angle type with row spacing 2.54mm
  F: Right Angle Type with row spacing 5.08mm
  M: Surface Mounting type with Top Tape Sealed
  D: Surface Mounting type with Top Tape Sealed in Tape & Reel Package
- Code: R: Real
  C: Complimentary
- Number of Position: 08, 10, 16
- Rotor: 1: Flat type
  2: Shaft type
- Series name: ERD: Rotary Type Sealed Construction

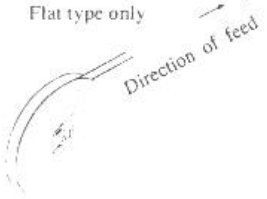
■ OPTIONS

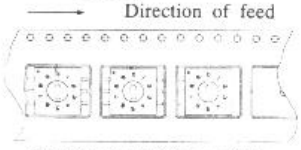
1. Special marking available.
2. Shaft Cover
   118-80100 (White)
   118-80200 (Red)



3. Tape & Reel Packaging (per EIA STANDARD)

Flat type only





Each Reel contain 750 pcs switches with a 390mm minimum leader and a 160mm minimum trailer